*****TRUENAS******

Prefer this-
https://hetmanrecovery.com/recovery_news/how-to-install-and-configure-truenas-core.htm#:~:text=Installing%20TrueNAS,-After%20the%20bootable&text=To%20select%20this%20option%2C%20press,Upgrade%2C%20and%20then%20press%20Enter.

==========

LAB:-

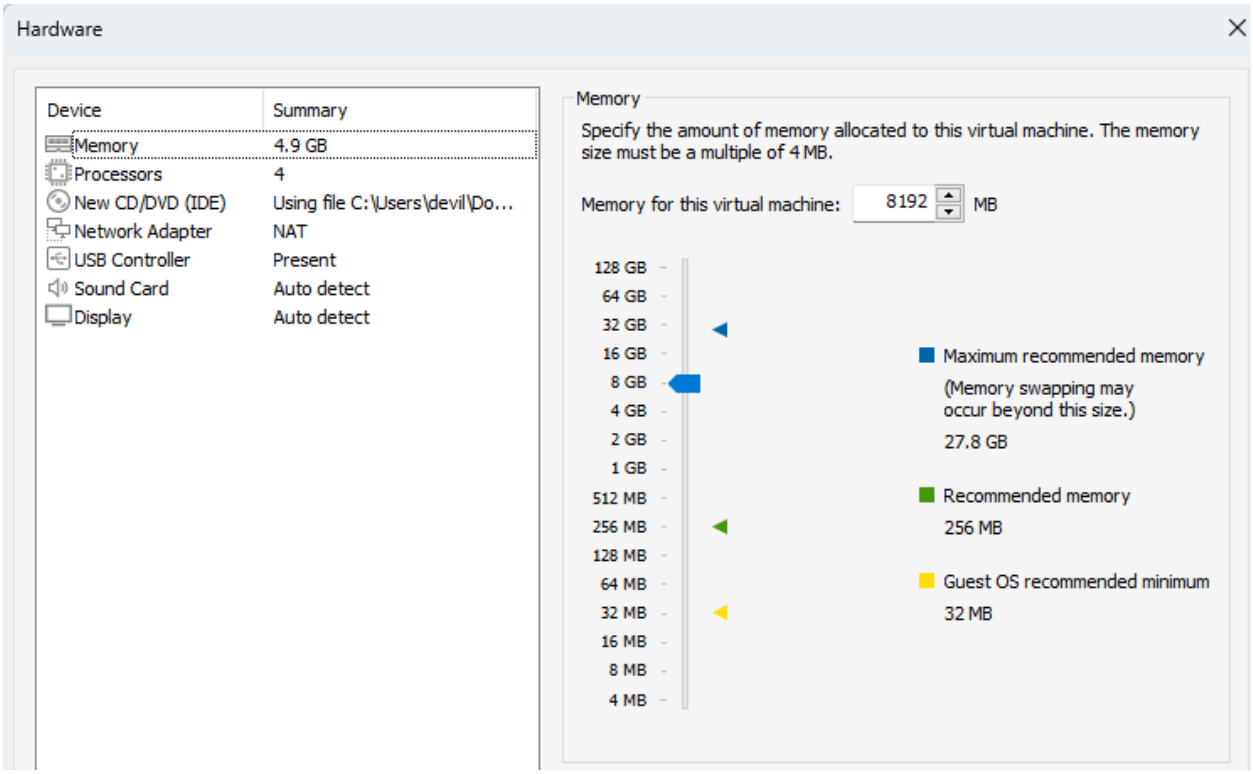
---------- INSTALLING TRUENAS ----------

TrueNAS :-

- -Download truenas by browser
- -open VMWare
- -create virtual machine

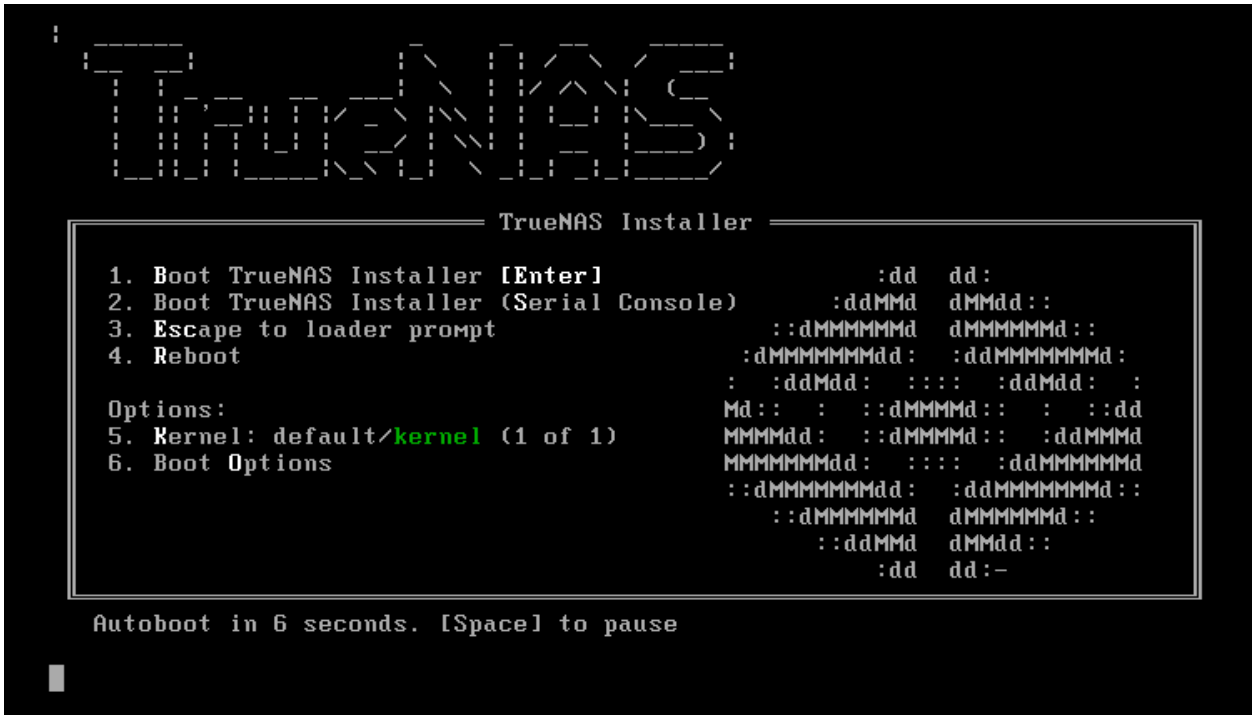
VMWare SETUP:-

- -select 'typical'
- -choose truenas file from browser
- - specify disk capacity(100)
- -add two additional disk of 5 gb
- - select virtual single disk file
- -ram(8GB)
- -processer 4gb(2+2)

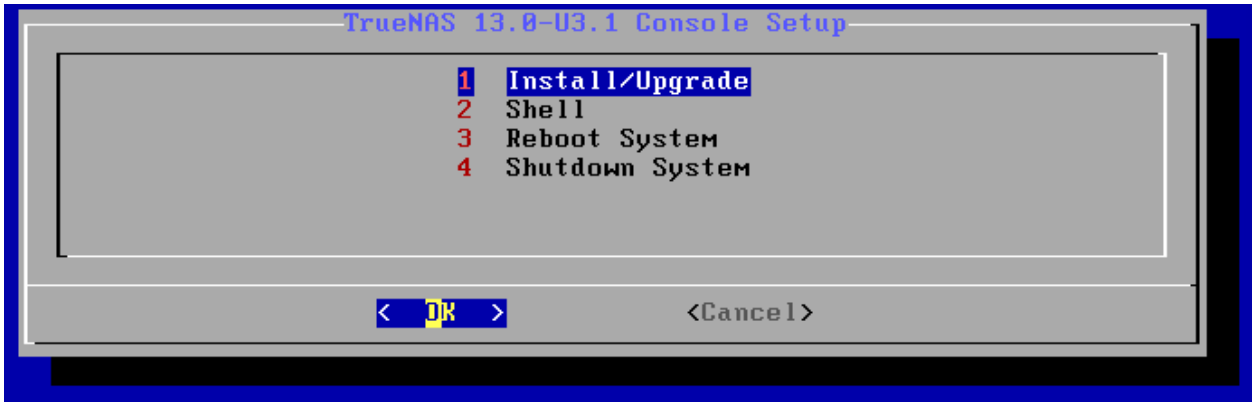


-finish

-click 'power on'

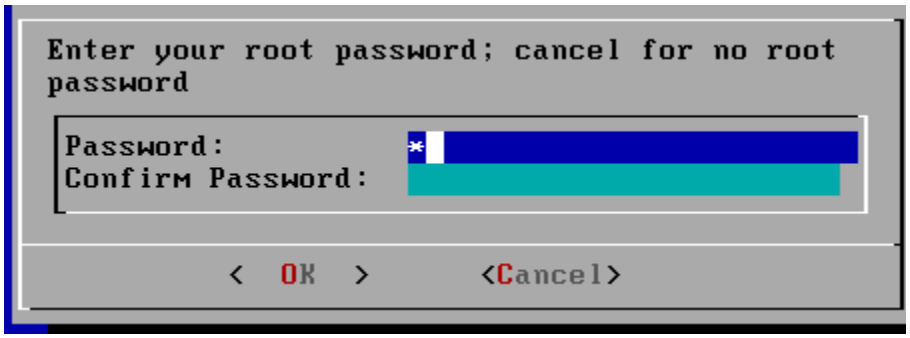


-install/upgrade

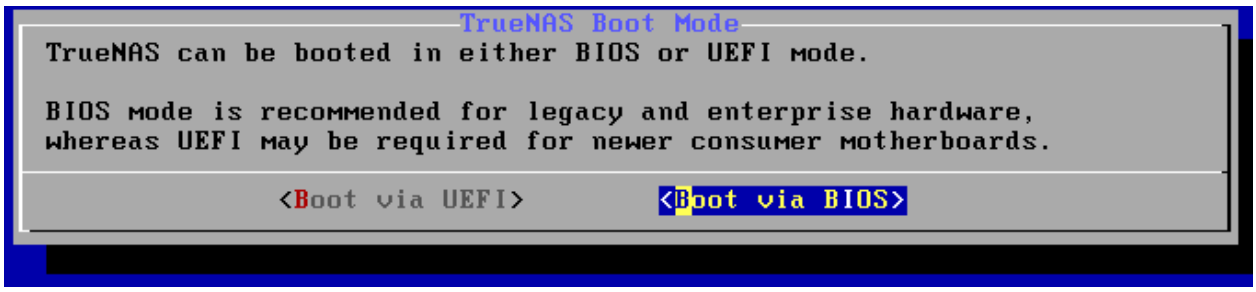


-click 'space

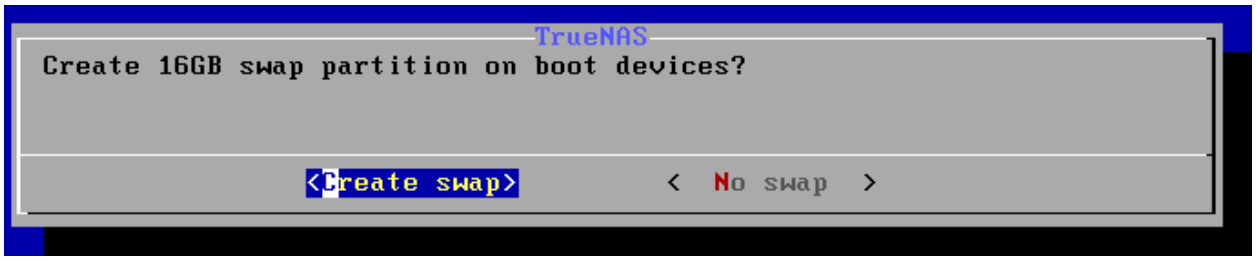
-ok>yes>enter password



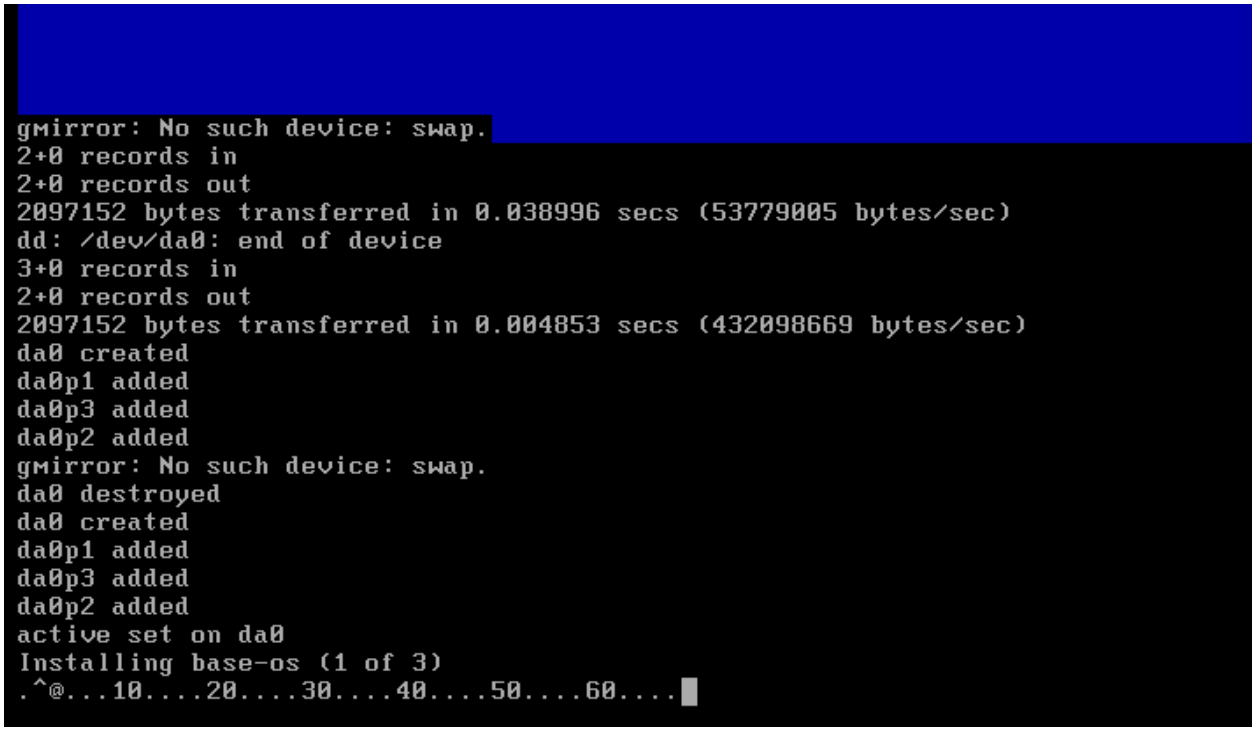
>ok>Boot via BIOS>



Create swap



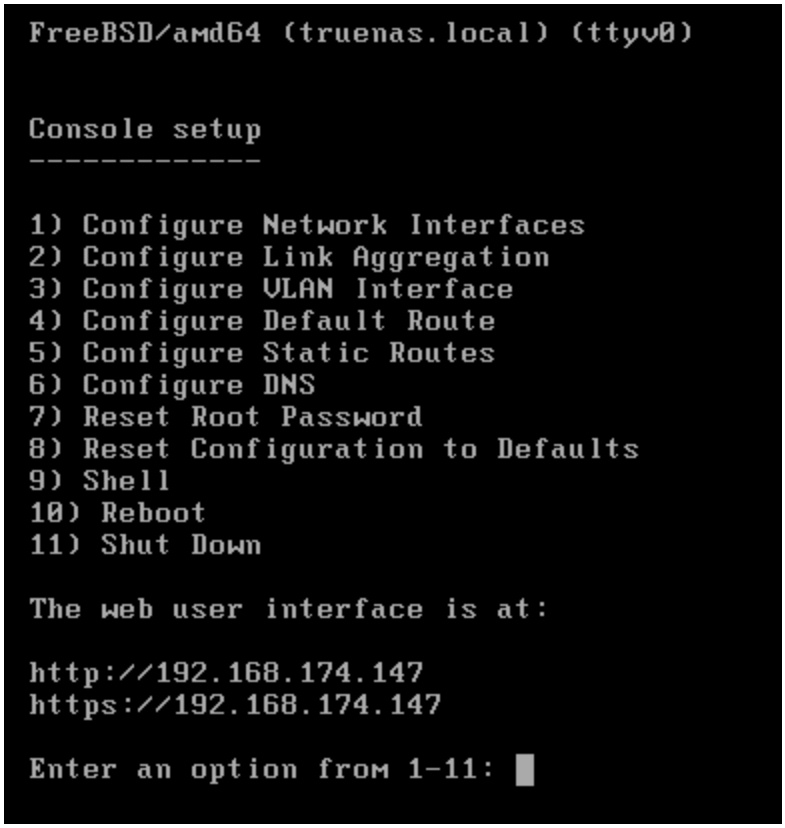
-ok



-select 'reboot system

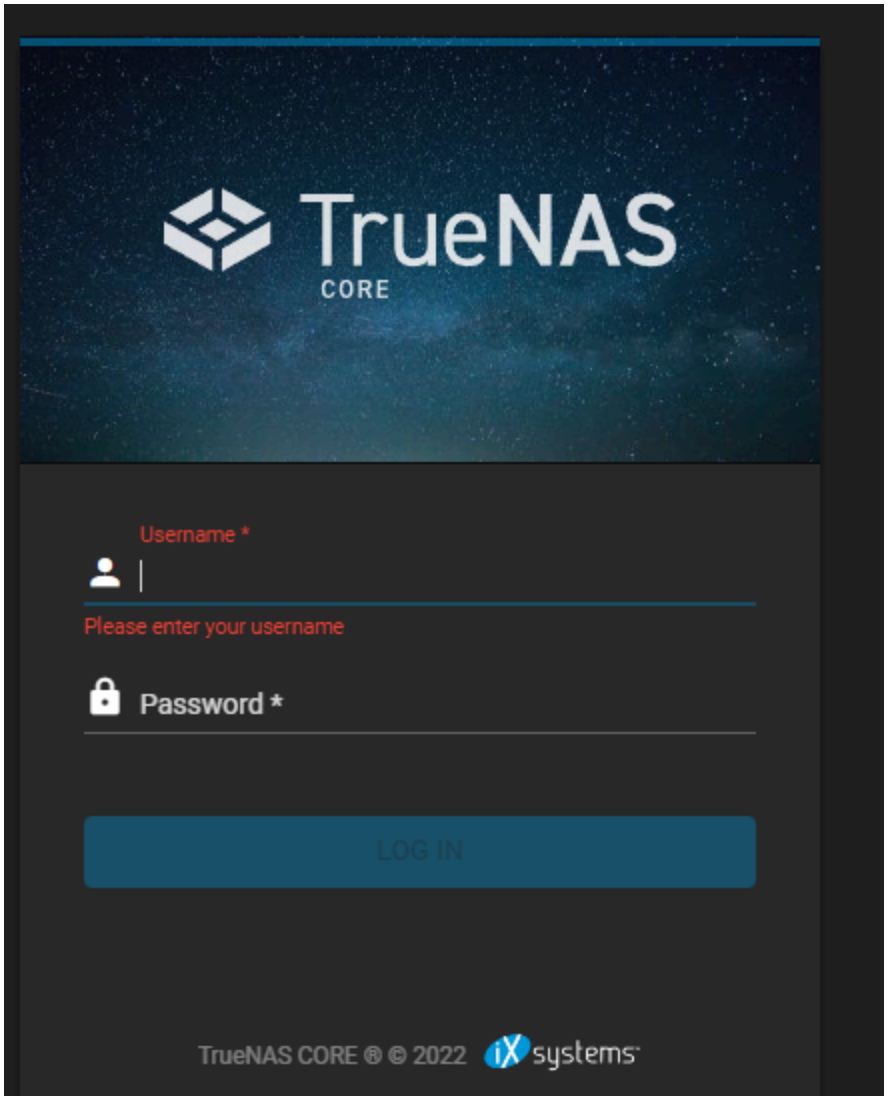
-ok

-show your ip(installation completed)

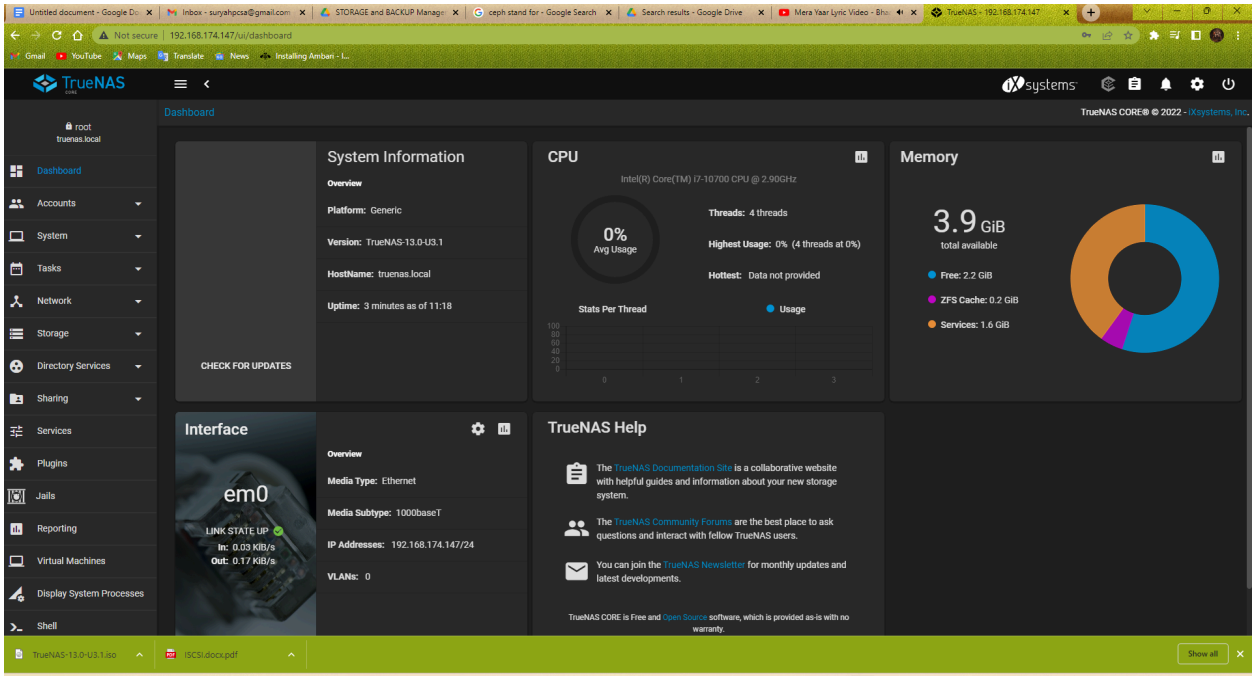


LOGIN TRUENAS:-

-Enter IP address on browser



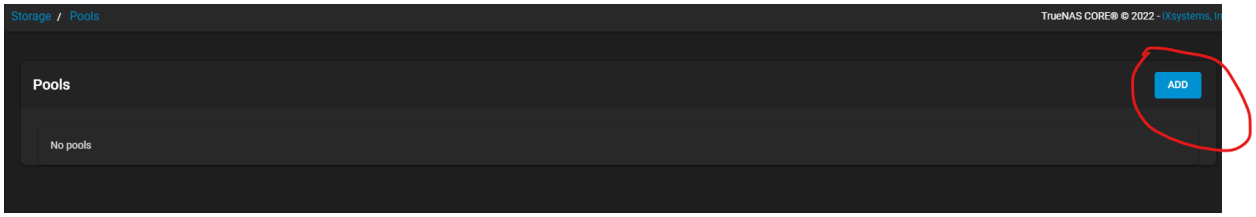
-user >root
-password>****(Enter password which given by you)
-Click 'OK'(you)



---------- SR-IOV ----------

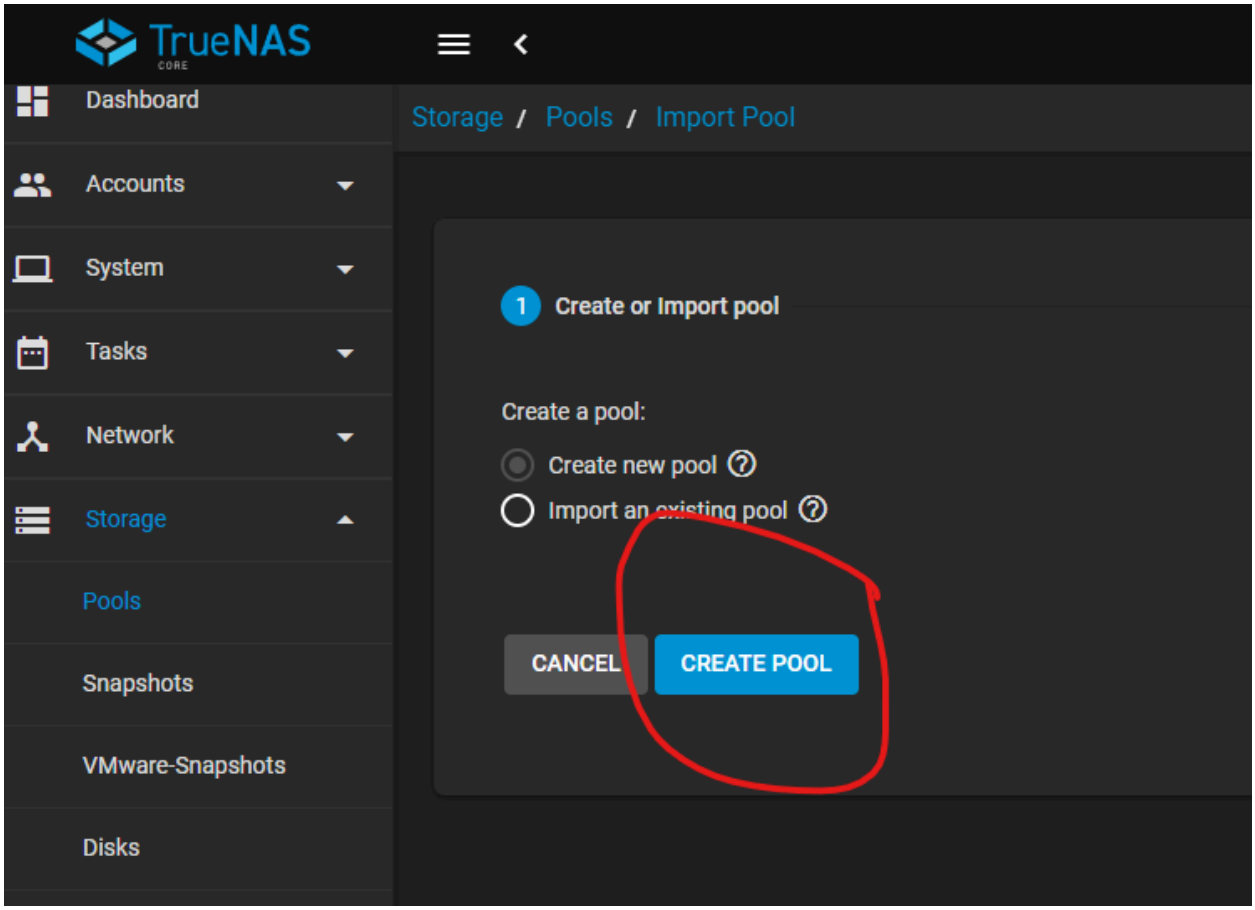
CREATE POOL:-

-Go to storage from left side



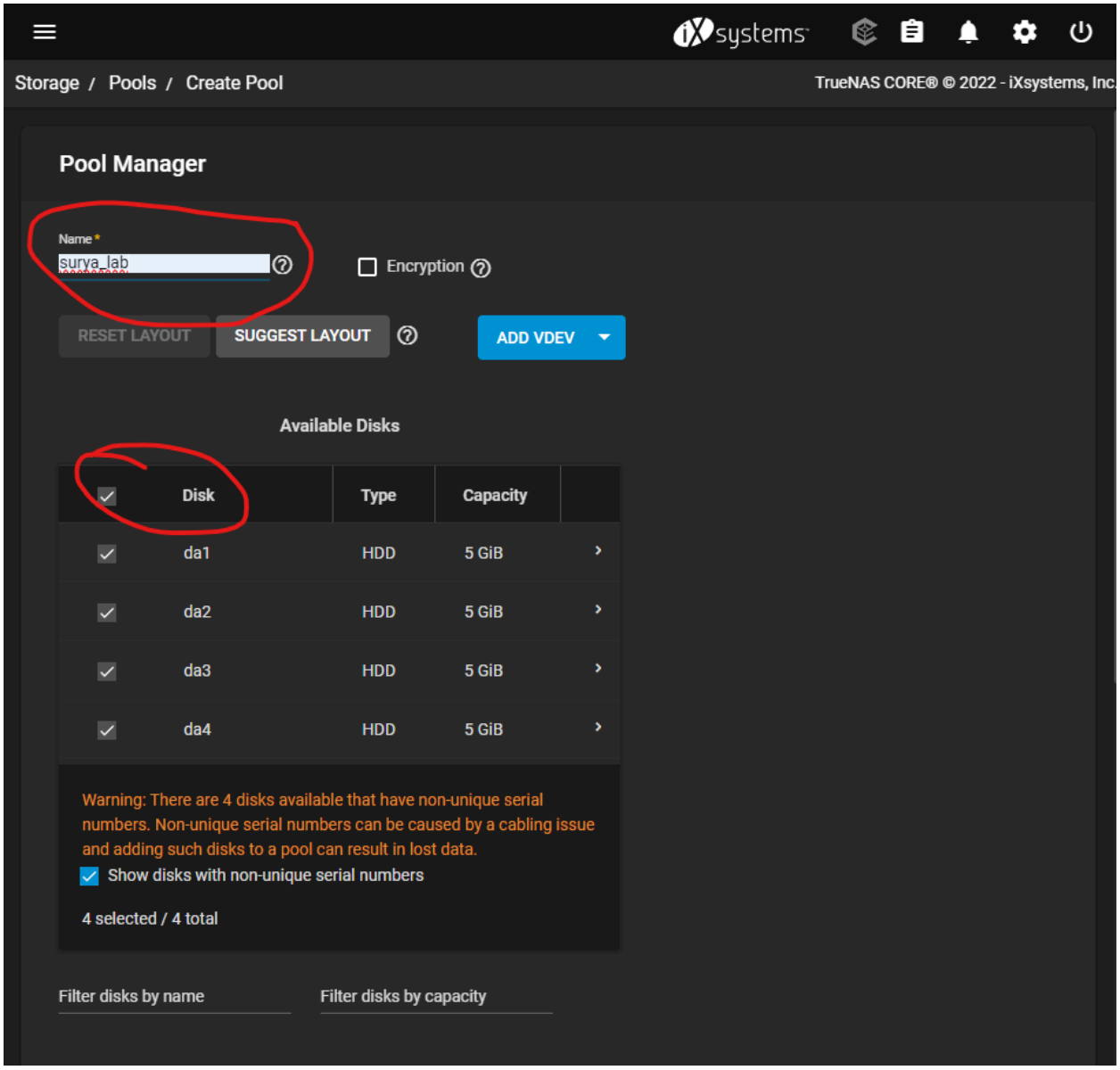
-pools

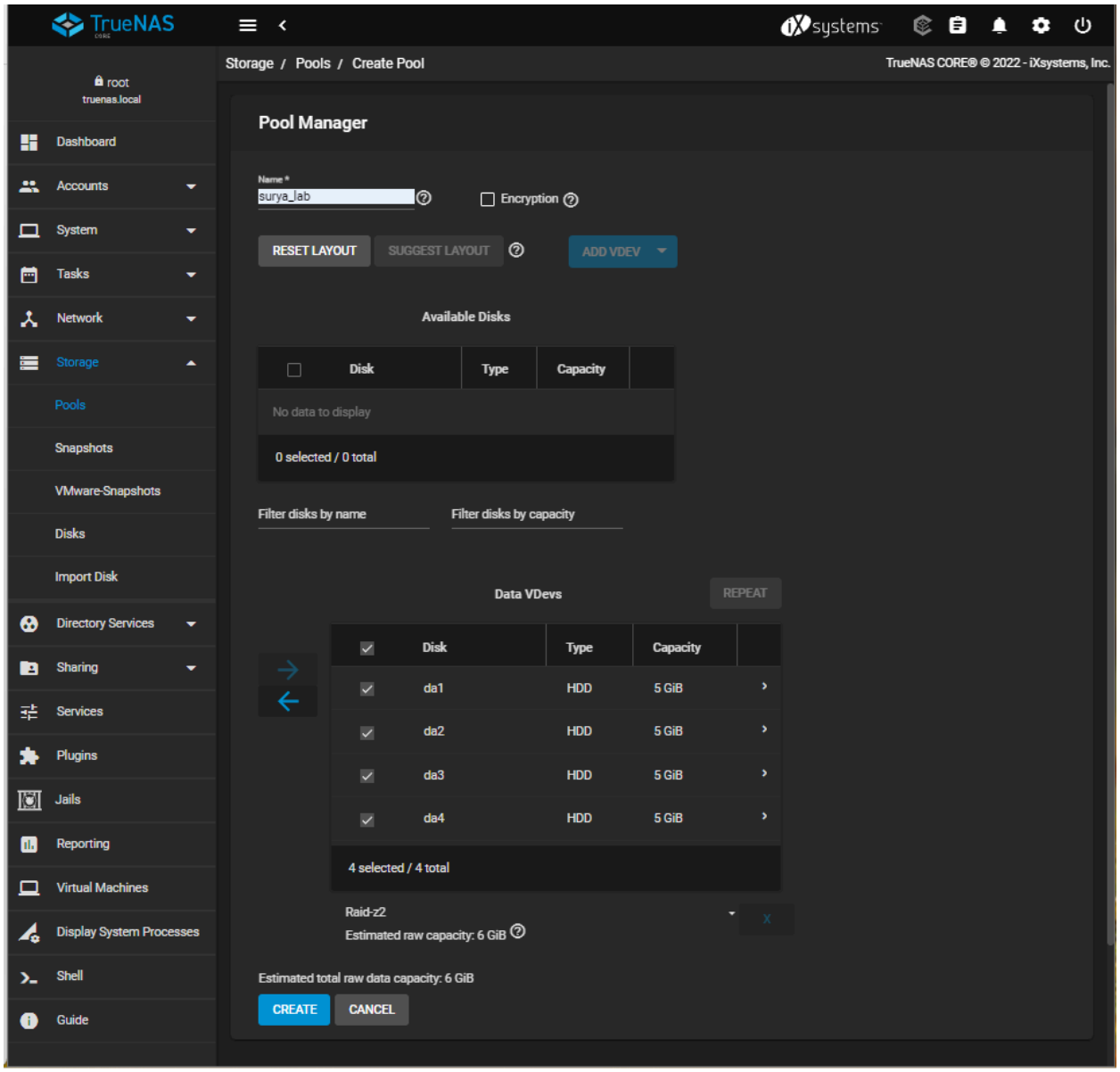
- add > select 'create new pool'



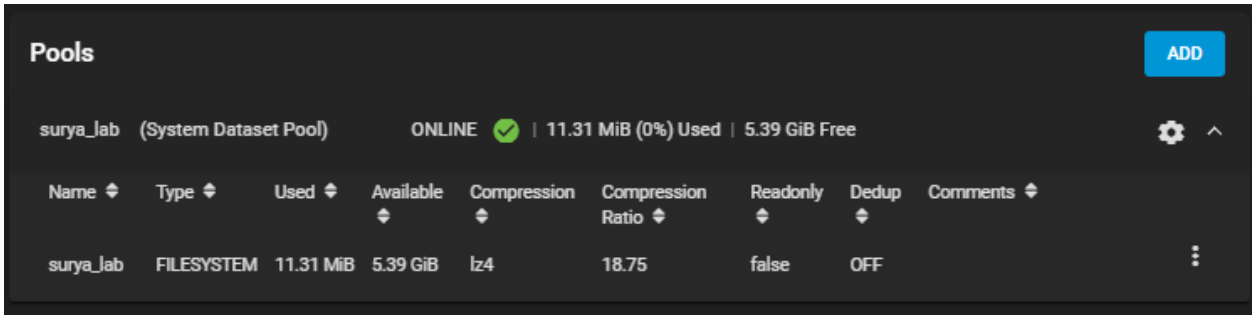
- createae pool

-surya_lab>suggest layout>select all disk


Storage / Pools / Create Pool
TrueNAS CORE® © 2022 - iXsystems, Inc.
Pool Manager
Name *
surya_lab
Encryption
RESET LAYOUT
SUGGEST LAYOUT
ADD VDEV
Available Disks
Disk
Type
Capacity
da1 HDD 5 GiB
da2 HDD 5 GiB
da3 HDD 5 GiB
da4 HDD 5 GiB
Warning: There are 4 disks available that have non-unique serial numbers. Non-unique serial numbers can be caused by a cabling issue and adding such disks to a pool can result in lost data.
Show disks with non-unique serial numbers
4 selected / 4 total
Filter disks by name
Filter disks by capacity



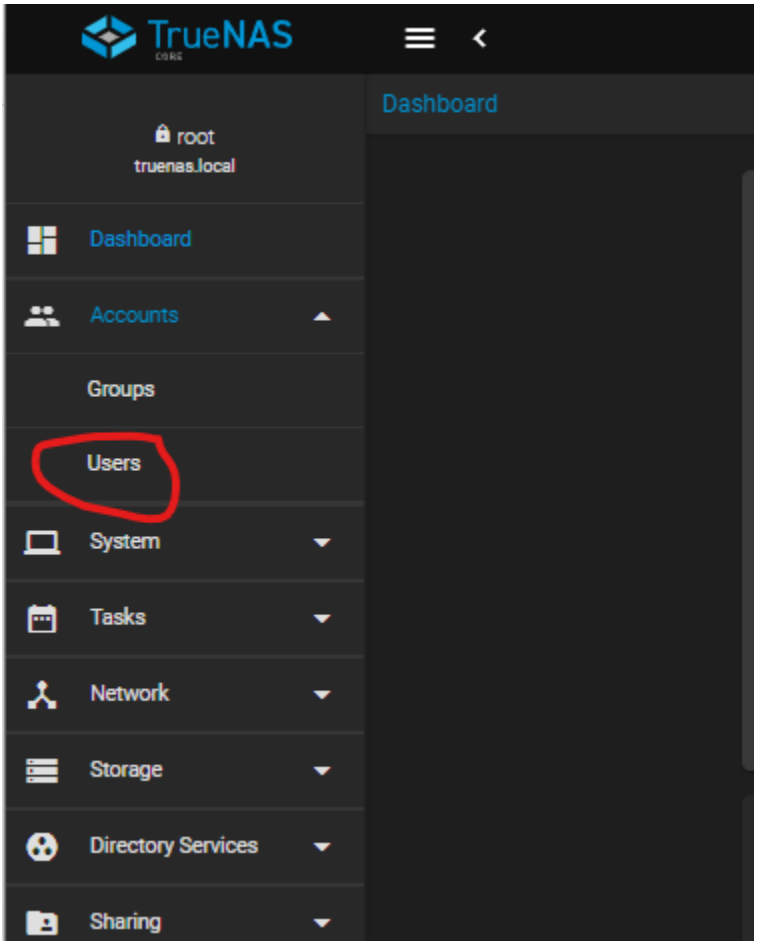
click 'create'



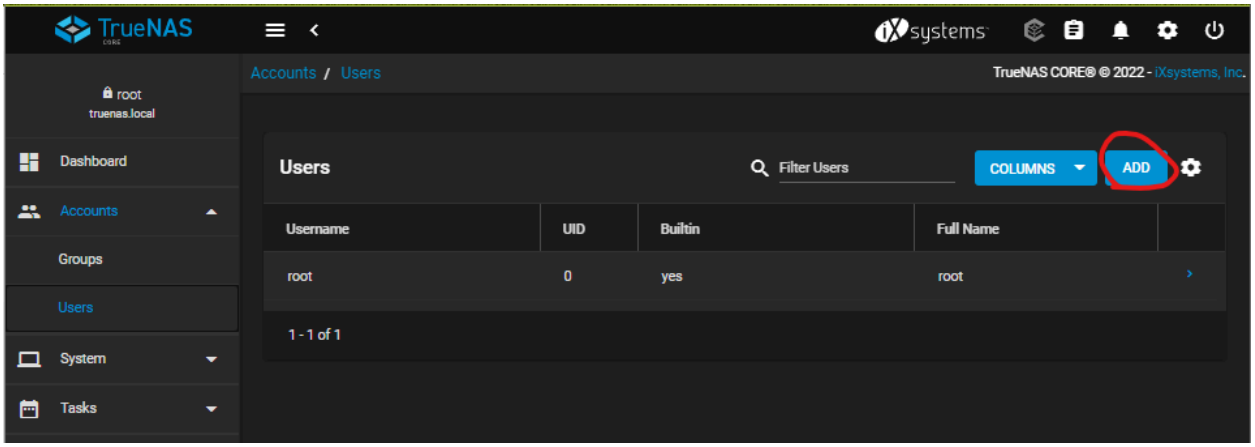
Pool created

Add user

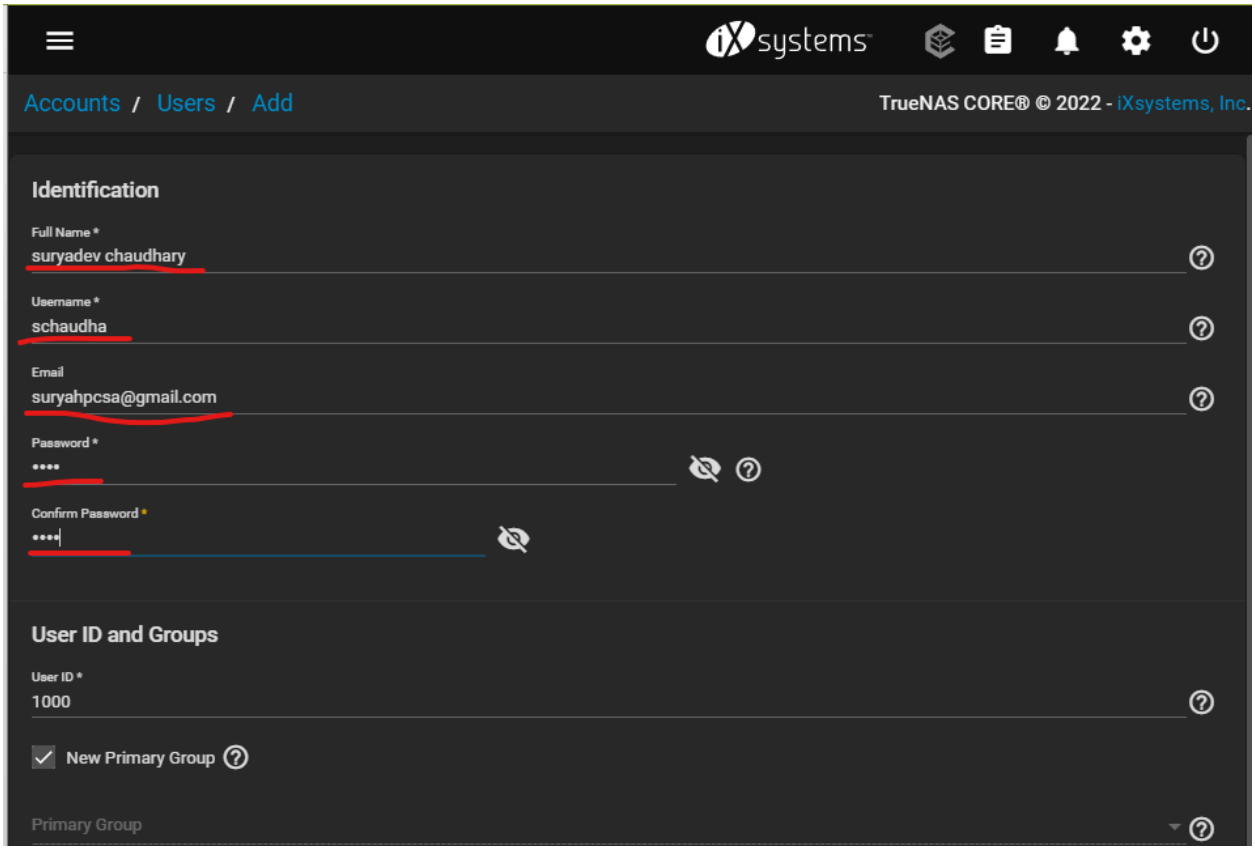
-click account > users



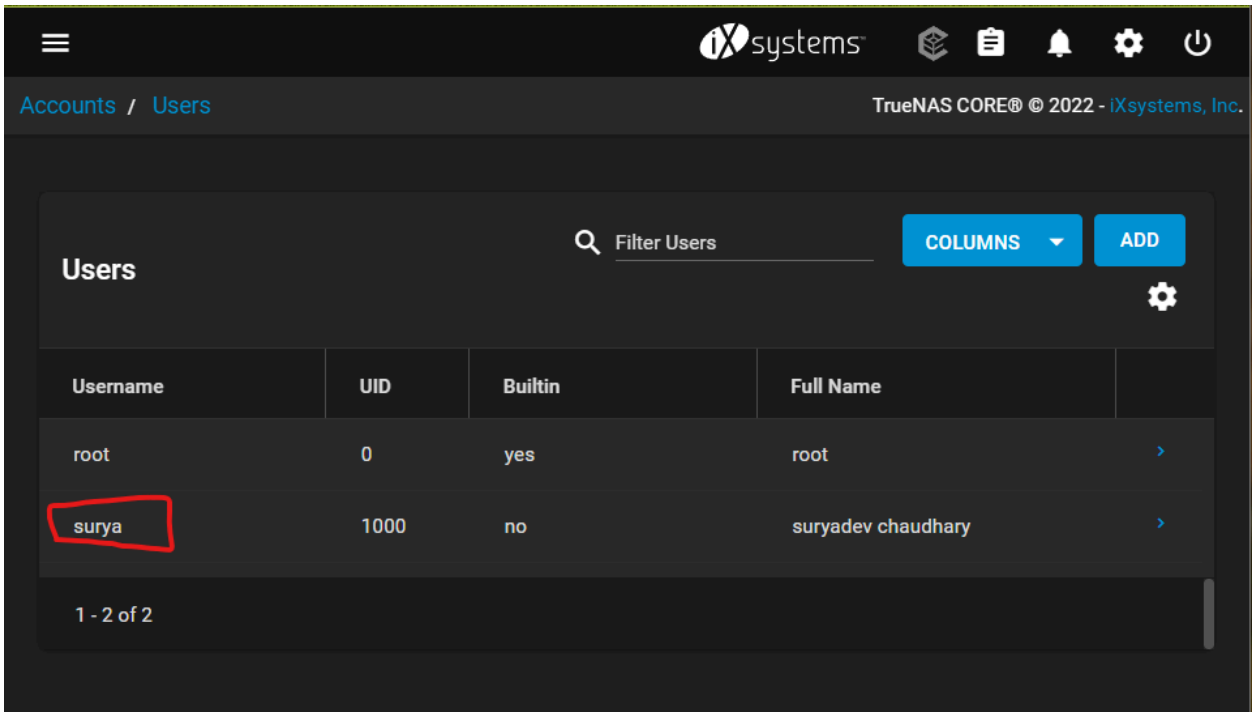
Click add for add user



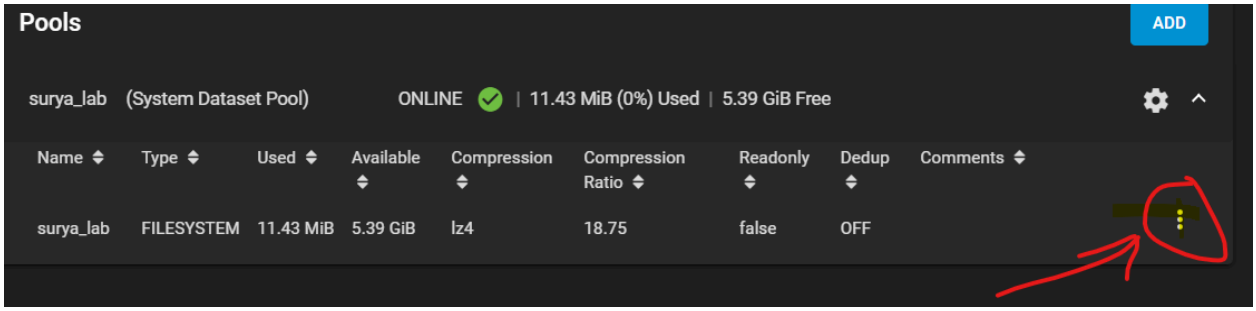
Enter mandatory detail for create user



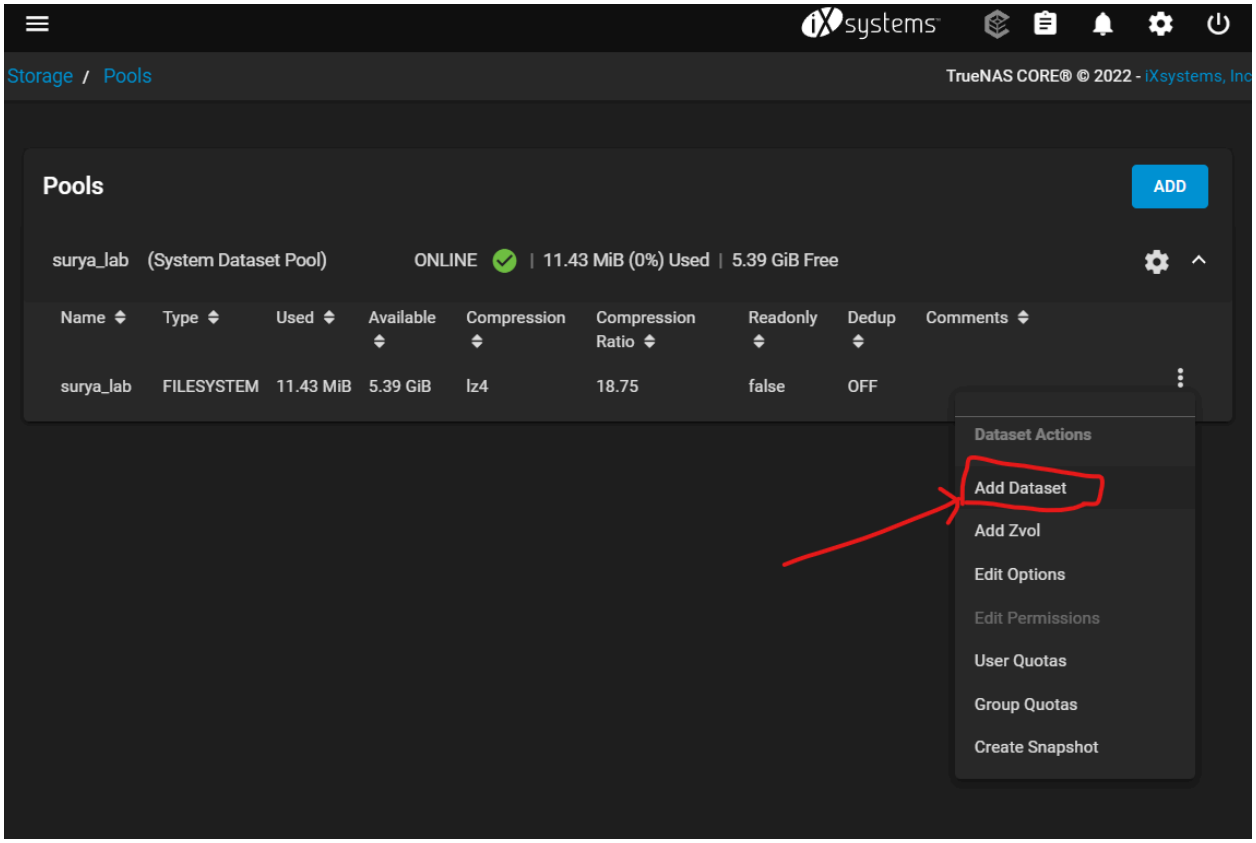
surya user created



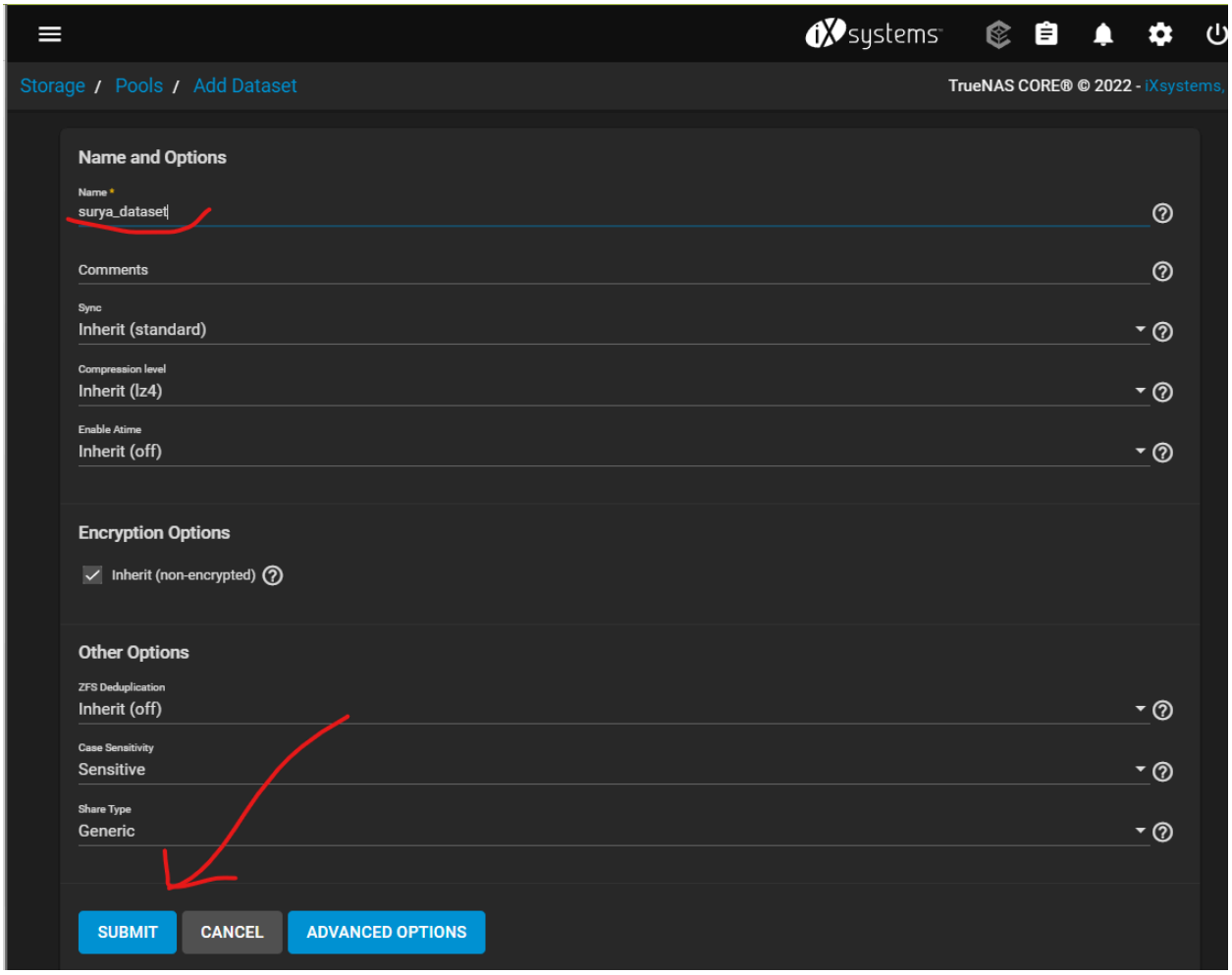
configure SMB connection
Storage > pools
Click on 3-dot for create dataset



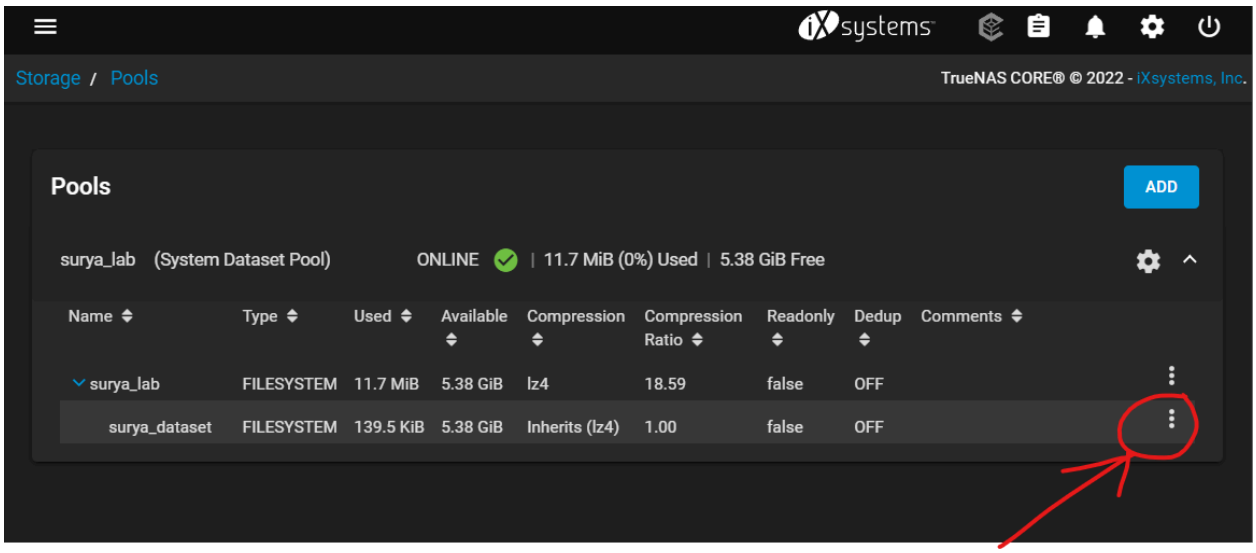
Add dataset



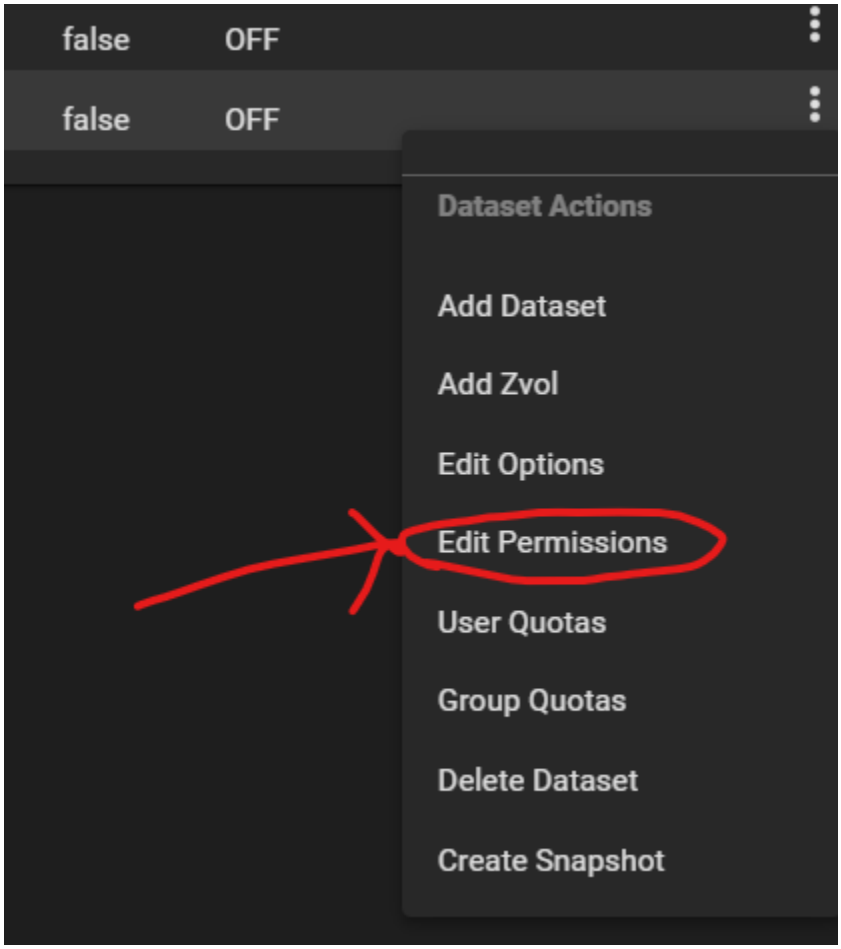
write name and click submit



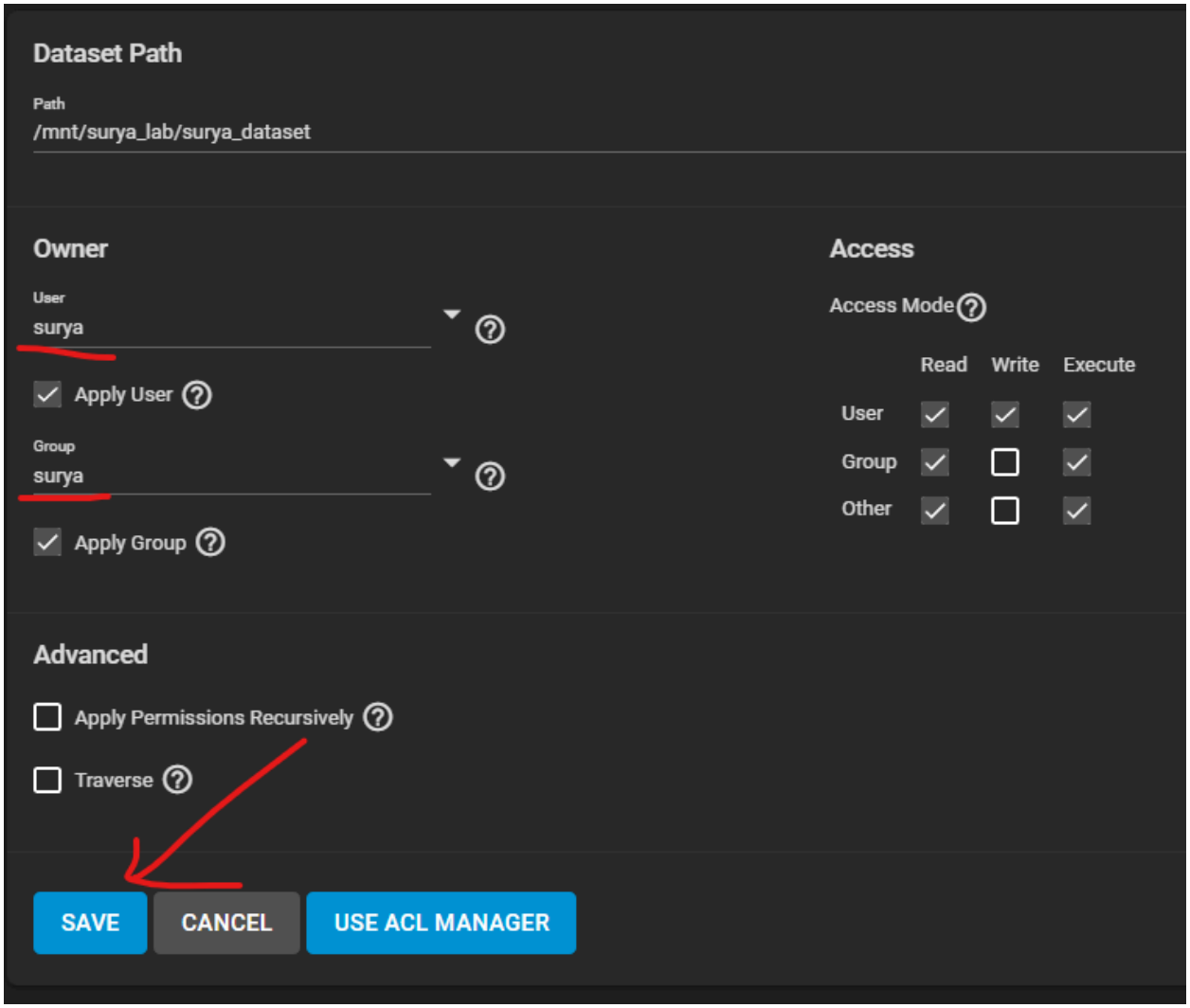
click 3-dot of created database for edit permission



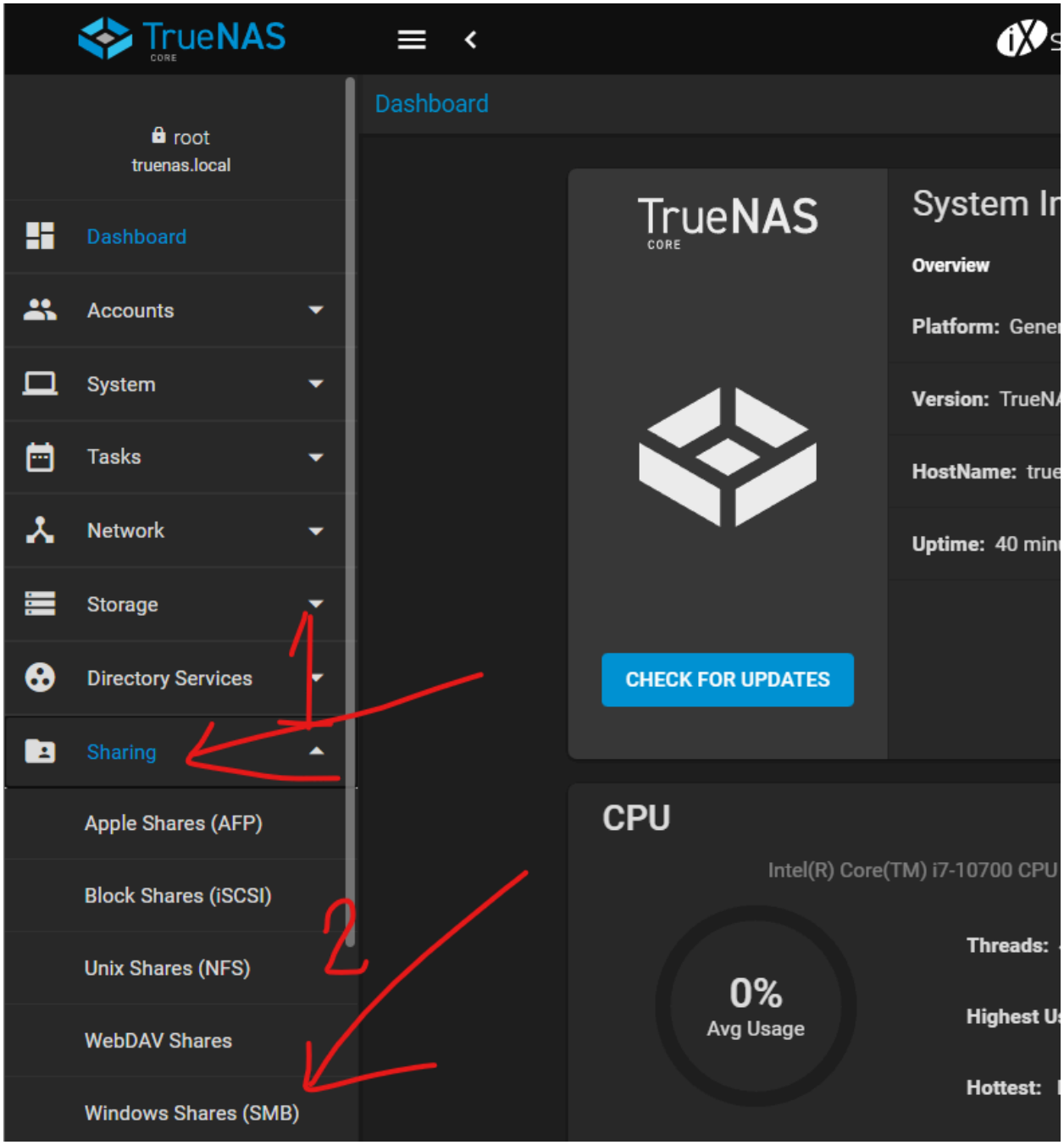
Click on edit permission



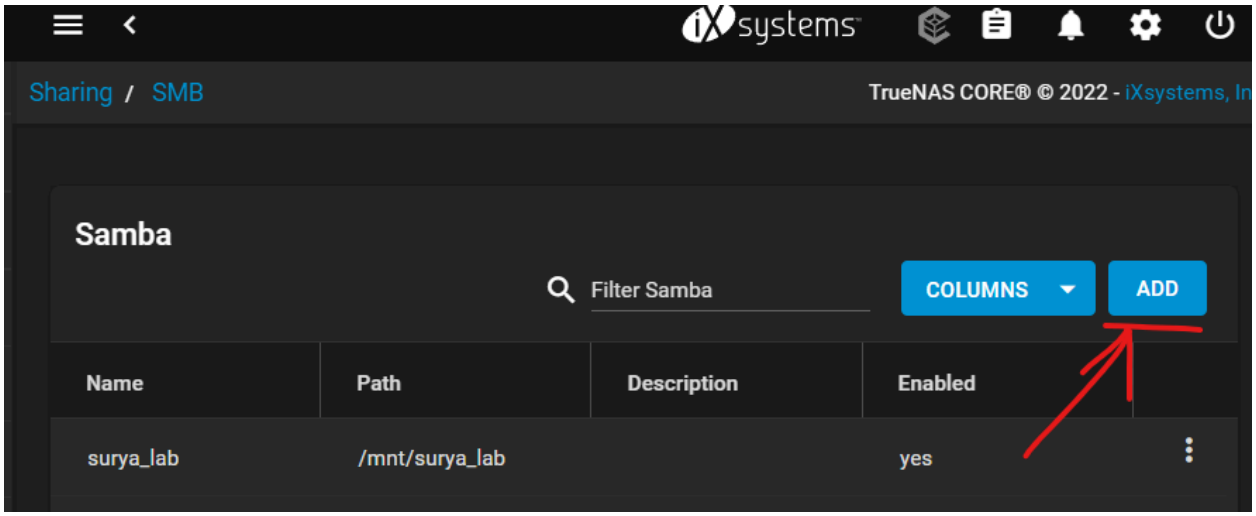
write user name & group name and click save



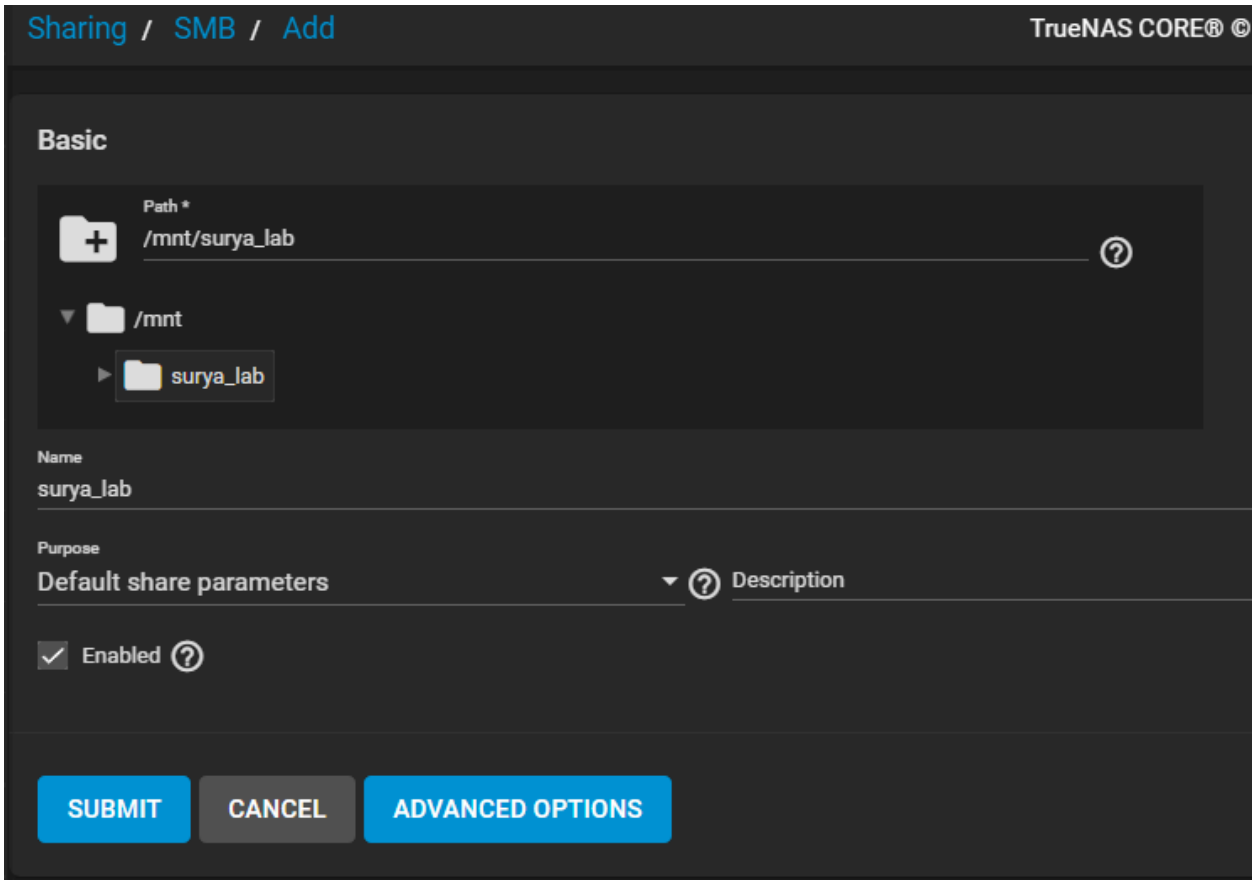
now go to sharing > window shares(SMB)



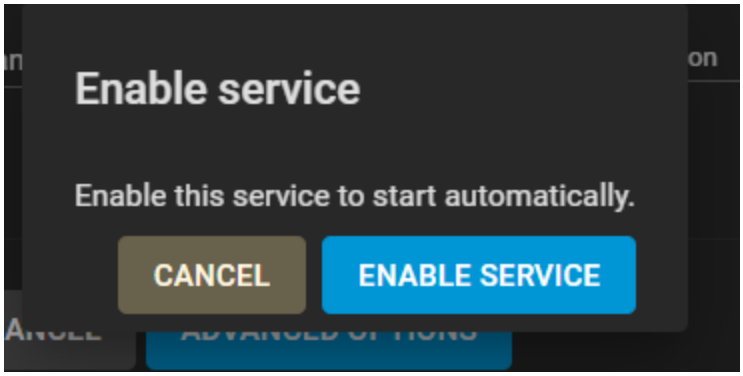
click add for enable service of dataset

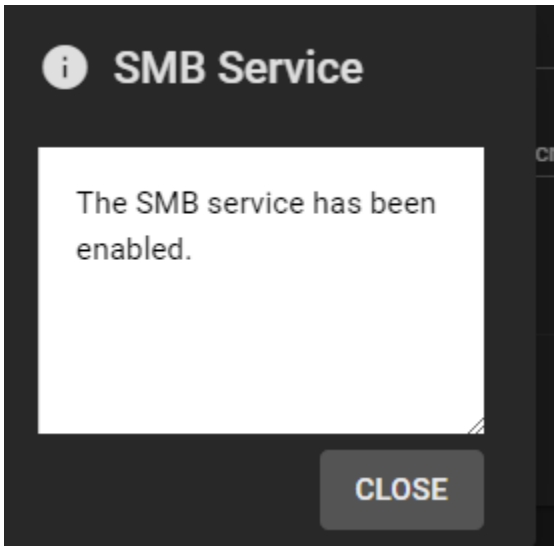


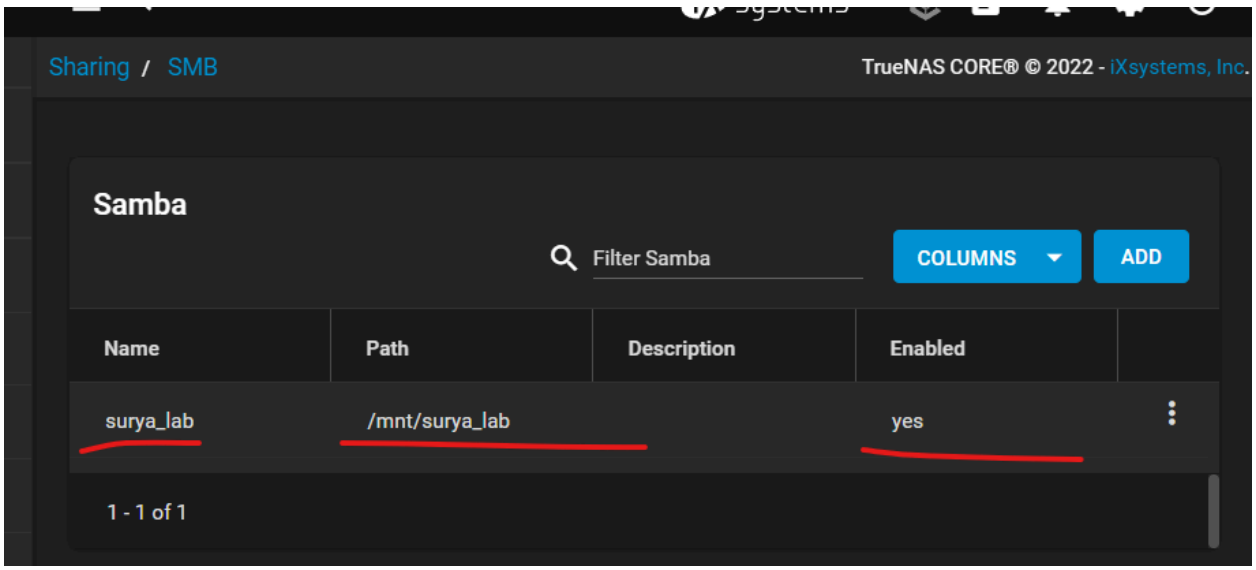
select your dataset and click submit



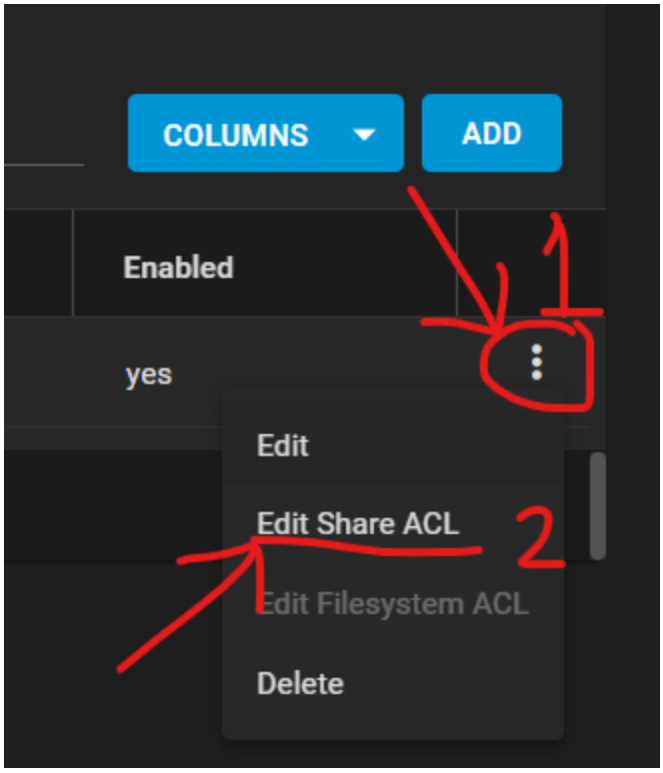
Enable service



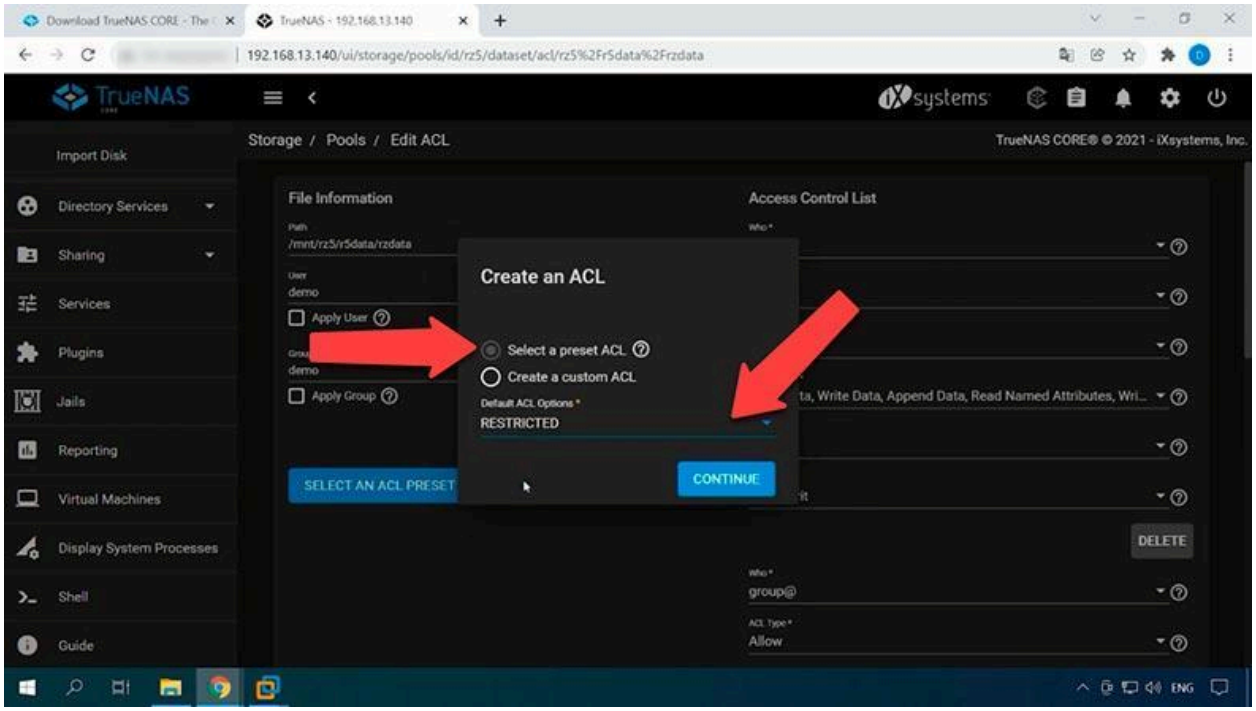




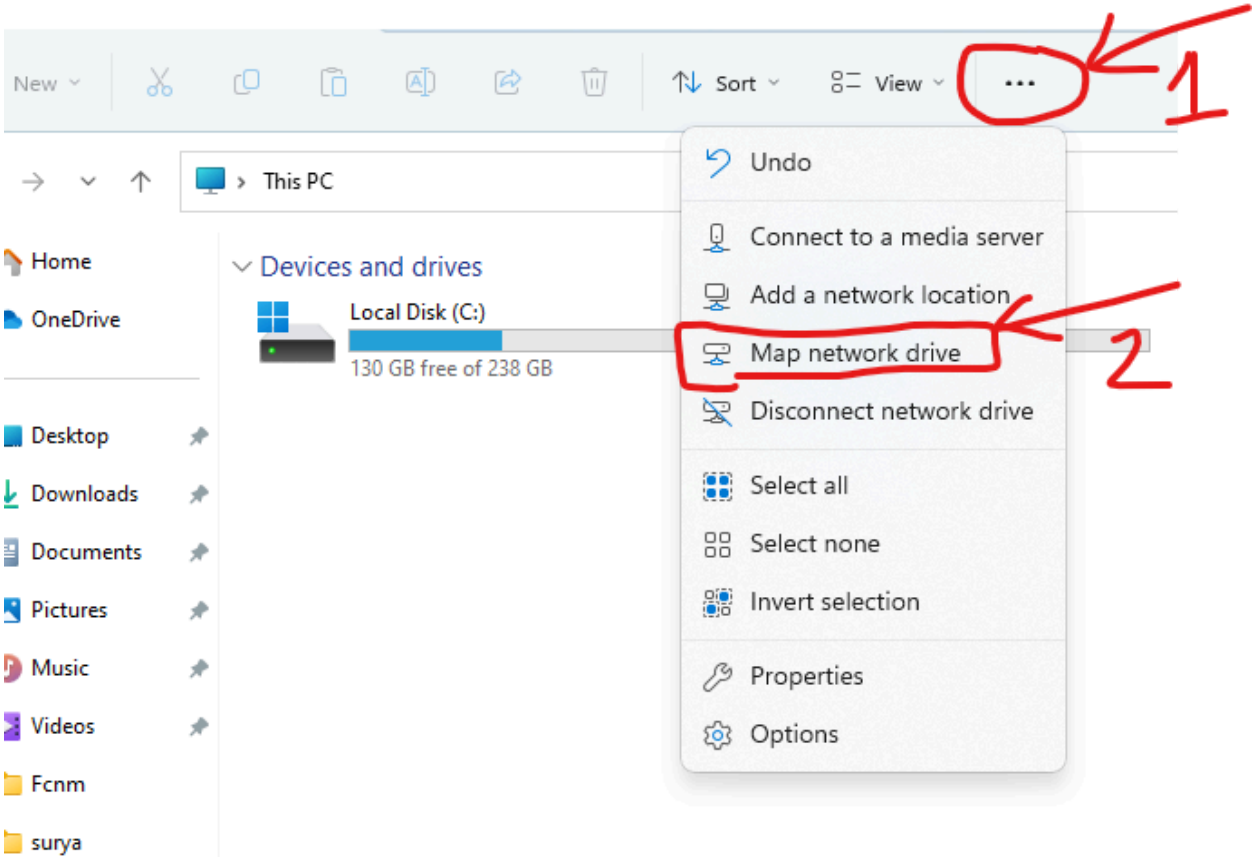
sharing>SMB>click 3-dot>edit share ACL

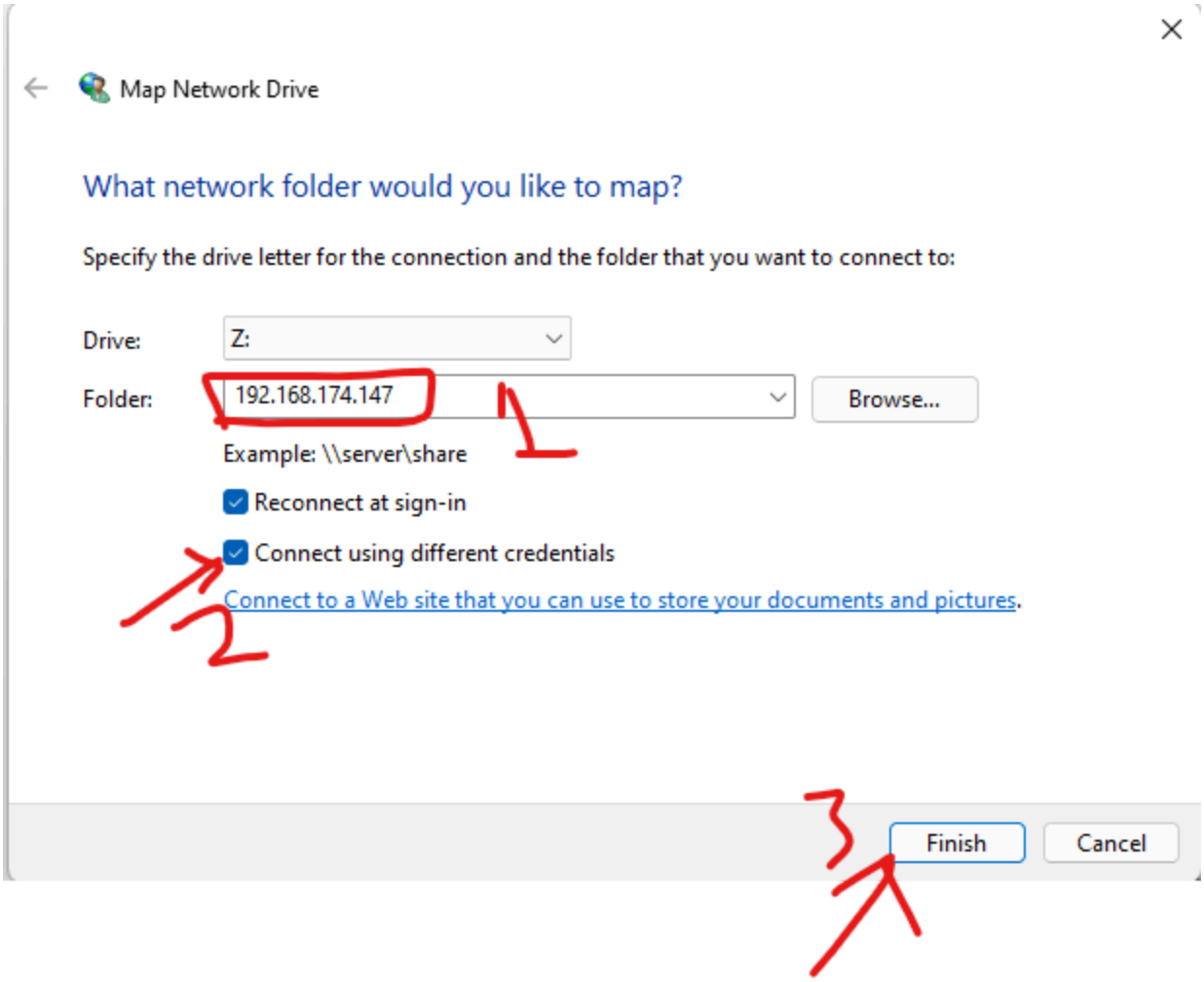


The next window suggests creating an ACL (access control list), so I'll choose one of the presets – "Select a preset ACL" and select "Restricted" from the list – then click "Continue". After that, a new setting will appear on the right: click below to save it.



access the storage
#go to file explorer and click 3-dot >map network drive





The network drive is connected, so you can create a directory there and write some data to the drive.

Conclusion

TrueNAS is quite an interesting solution in terms of organizing your own network storage without paying too much. If you create a system like that on the basis of your old computer, you'll get a network-attached storage with a new file system ZFS and a bunch of NAS features.